

USAMMDA INFORMATION PAPER

PRODUCT: PORTABLE PLASMA STERILIZER (CONGRESSIONAL)

DESCRIPTION: The Portable Plasma Sterilizer uses a low pressure, ionized mixture of air and hydrogen peroxide vapor as a sterilant. This technology is able to sterilize conventional metallic instruments and penetrate small passages. The low temperature of the process makes it able to sterilize heat sensitive materials that are otherwise difficult to sterilize. Because this is a dry process, medical instruments can be sterilized in advance and stored in a sterile state; this is not possible with liquid sterilants. This is a scalable technology that can go from table top to a hospital sized unit. The low pressure of the process eliminates the need for heavy pressure vessels used in steam sterilizers.

PROGRAM RELEVANCE to the ARMY: This product supports both the core mission of the Army and the Army Campaign Plan. Of the Army's core competencies, this product supports "Forcible Entry Operations," "Sustained Land Dominance," and "Support of Civil Authorities." Sterilization of supplies is a key capability for field hospital logistics. This product supports Future Operational Capabilities: MD-02-001 Clearing the Battlefield and MD-02-002 Hospitalization.

ISSUES/ACTIONS:

- This is new technology the limitations of which need to be explored.
- This is a new start.

ADDITIONAL INFORMATION:

BPL # 460

DA PROJECT/TASK– Trauma Management –
PE/PROJ 633002/MK8JP

MAMP RANK: Not Ranked

ARMY ORD:

SCHEDULE:

Project Start 3QFY05

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